

Interview Summary	Application No.	Applicant(s)	
	10/800,144	BROWNING ET AL.	
	Examiner	Art Unit	
	Todd E. Manahan	3732	

All participants (applicant, applicant's representative, PTO personnel):

(1) Todd E. Manahan. (3) _____.

(2) Mike Guiliana. (4) _____.

Date of Interview: 12 May 2005.

Type: a) ☐ Telephonic b) ☐ Video Conference
c) ☒ Personal [copy given to: 1) ☐ applicant 2) ☒ applicant's representative]

Exhibit shown or demonstration conducted: d) ☐ Yes e) ☐ No.
If Yes, brief description: _____.

Claim(s) discussed: 1-47.

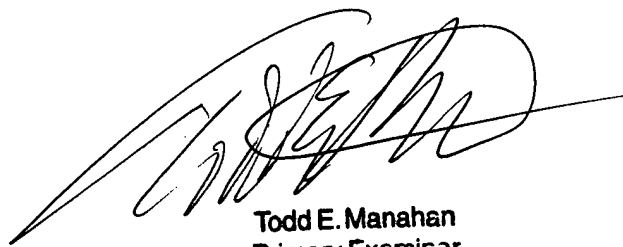
Identification of prior art discussed: McLaughlin et al., Reeves et al., Bailey, Cardelli, Dutt et al., Franetzki et al.

Agreement with respect to the claims f) ☐ was reached. g) ☐ was not reached. h) ☐ N/A.

Substance of Interview including description of the general nature of what was agreed to if an agreement was reached, or any other comments: proposed amendment to claims 2 and 34 would overcome the prior art of record.

(A fuller description, if necessary, and a copy of the amendments which the examiner agreed would render the claims allowable, if available, must be attached. Also, where no copy of the amendments that would render the claims allowable is available, a summary thereof must be attached.)

THE FORMAL WRITTEN REPLY TO THE LAST OFFICE ACTION MUST INCLUDE THE SUBSTANCE OF THE INTERVIEW. (See MPEP Section 713.04). If a reply to the last Office action has already been filed, APPLICANT IS GIVEN ONE MONTH FROM THIS INTERVIEW DATE, OR THE MAILING DATE OF THIS INTERVIEW SUMMARY FORM, WHICHEVER IS LATER, TO FILE A STATEMENT OF THE SUBSTANCE OF THE INTERVIEW. See Summary of Record of Interview requirements on reverse side or on attached sheet.


Todd E. Manahan
Primary Examiner

Examiner Note: You must sign this form unless it is an Attachment to a signed Office action.

Examiner's signature, if required

Summary of Record of Interview Requirements

Manual of Patent Examining Procedure (MPEP), Section 713.04, Substance of Interview Must be Made of Record

A complete written statement as to the substance of any face-to-face, video conference, or telephone interview with regard to an application must be made of record in the application whether or not an agreement with the examiner was reached at the interview.

Title 37 Code of Federal Regulations (CFR) § 1.133 Interviews

Paragraph (b)

In every instance where reconsideration is requested in view of an interview with an examiner, a complete written statement of the reasons presented at the interview as warranting favorable action must be filed by the applicant. An interview does not remove the necessity for reply to Office action as specified in §§ 1.111, 1.135. (35 U.S.C. 132)

37 CFR §1.2 Business to be transacted in writing.

All business with the Patent or Trademark Office should be transacted in writing. The personal attendance of applicants or their attorneys or agents at the Patent and Trademark Office is unnecessary. The action of the Patent and Trademark Office will be based exclusively on the written record in the Office. No attention will be paid to any alleged oral promise, stipulation, or understanding in relation to which there is disagreement or doubt.

The action of the Patent and Trademark Office cannot be based exclusively on the written record in the Office if that record is itself incomplete through the failure to record the substance of interviews.

It is the responsibility of the applicant or the attorney or agent to make the substance of an interview of record in the application file, unless the examiner indicates he or she will do so. It is the examiner's responsibility to see that such a record is made and to correct material inaccuracies which bear directly on the question of patentability.

Examiners must complete an Interview Summary Form for each interview held where a matter of substance has been discussed during the interview by checking the appropriate boxes and filling in the blanks. Discussions regarding only procedural matters, directed solely to restriction requirements for which interview recordation is otherwise provided for in Section 812.01 of the Manual of Patent Examining Procedure, or pointing out typographical errors or unreadable script in Office actions or the like, are excluded from the interview recordation procedures below. Where the substance of an interview is completely recorded in an Examiners Amendment, no separate Interview Summary Record is required.

The Interview Summary Form shall be given an appropriate Paper No., placed in the right hand portion of the file, and listed on the "Contents" section of the file wrapper. In a personal interview, a duplicate of the Form is given to the applicant (or attorney or agent) at the conclusion of the interview. In the case of a telephone or video-conference interview, the copy is mailed to the applicant's correspondence address either with or prior to the next official communication. If additional correspondence from the examiner is not likely before an allowance or if other circumstances dictate, the Form should be mailed promptly after the interview rather than with the next official communication.

The Form provides for recordation of the following information:

- Application Number (Series Code and Serial Number)
- Name of applicant
- Name of examiner
- Date of interview
- Type of interview (telephonic, video-conference, or personal)
- Name of participant(s) (applicant, attorney or agent, examiner, other PTO personnel, etc.)
- An indication whether or not an exhibit was shown or a demonstration conducted
- An identification of the specific prior art discussed
- An indication whether an agreement was reached and if so, a description of the general nature of the agreement (may be by attachment of a copy of amendments or claims agreed as being allowable). Note: Agreement as to allowability is tentative and does not restrict further action by the examiner to the contrary.
- The signature of the examiner who conducted the interview (if Form is not an attachment to a signed Office action)

It is desirable that the examiner orally remind the applicant of his or her obligation to record the substance of the interview of each case. It should be noted, however, that the Interview Summary Form will not normally be considered a complete and proper recordation of the interview unless it includes, or is supplemented by the applicant or the examiner to include, all of the applicable items required below concerning the substance of the interview.

A complete and proper recordation of the substance of any interview should include at least the following applicable items:

- 1) A brief description of the nature of any exhibit shown or any demonstration conducted,
- 2) an identification of the claims discussed,
- 3) an identification of the specific prior art discussed,
- 4) an identification of the principal proposed amendments of a substantive nature discussed, unless these are already described on the Interview Summary Form completed by the Examiner,
- 5) a brief identification of the general thrust of the principal arguments presented to the examiner,
(The identification of arguments need not be lengthy or elaborate. A verbatim or highly detailed description of the arguments is not required. The identification of the arguments is sufficient if the general nature or thrust of the principal arguments made to the examiner can be understood in the context of the application file. Of course, the applicant may desire to emphasize and fully describe those arguments which he or she feels were or might be persuasive to the examiner.)
- 6) a general indication of any other pertinent matters discussed, and
- 7) if appropriate, the general results or outcome of the interview unless already described in the Interview Summary Form completed by the examiner.

Examiners are expected to carefully review the applicant's record of the substance of an interview. If the record is not complete and accurate, the examiner will give the applicant an extendable one month time period to correct the record.

Examiner to Check for Accuracy

If the claims are allowable for other reasons of record, the examiner should send a letter setting forth the examiner's version of the statement attributed to him or her. If the record is complete and accurate, the examiner should place the indication, "Interview Record OK" on the paper recording the substance of the interview along with the date and the examiner's initials.

PENDING CLAIMS FOR INTERVIEW

1. A disposable dental instrument driven by compressed air comprising:
an elongated body, said elongated body comprising:
a first shell, a second mating shell, and a core, said first and second shells joined to form an exterior surface for manual manipulation, said shells forming a cavity, said cavity comprising a first set of integrally formed grooves within a cavity wall, said core comprising a second set of integrally formed grooves matching up with said first set of grooves, said first and second set of grooves being matched in shape and location to define various passageways as fluid conduits;
a base, said base comprising:
a plurality of conduits, said base communicating with an outside source of light, air, and water through said conduits, said conduits communicating with said passageways defined by said elongated body;
a head located at the opposite end from said base, said head comprising:
a supporting shaft, bearings rotatably supporting an upper and lower end of said supporting shaft, each bearing positioned within a bushing, said bushings positioned within said head, a turbine impeller, said turbine impeller connected to said supporting shaft, said turbine impeller being driven by said compressed source air through an air nozzle to rotate a dental bur, a dental bur mounting system, a dental bur removal system, said dental bur removal system having an access hole to allow an object to push out said dental bur from said supporting shaft; and
various openings located proximate to said head, said various openings delivering light, air, and water in the general direction of said dental bur.
2. (Proposed Amendment) A disposable dental instrument driven by compressed air comprising:
an elongated body, said elongated body comprising:
a first shell, a mating second shell, and a core, said first and second shells joined to form an exterior surface for manual manipulation, said shells forming a

cavity, said cavity comprising a first set of integrally formed grooves within a cavity wall, said core comprising a second set of integrally formed grooves matching up with said first set of grooves, said first and second set of grooves being substantially matched in shape and location to define various passageways as fluid conduits;

a base, said base comprising:

a plurality of conduits, said base communicating with an outside source of light, air, and water through said conduits, said conduits communicating with said passageways defined by said elongated body;

a head located at the opposite end from said base, said head comprising:

a rotatable turbine shaft, first and second bushings mounted within said head and rotatably supporting said turbine shaft, a turbine impeller located between said first and second bushings and attached to said rotatable turbine shaft;

said turbine impeller being juxtaposed an air nozzle connected to said compressed air source by one of said fluid conduits; and *so as to drive the impeller w/ the air.*

a dental bur mounting apparatus attached at one end of said turbine shaft, at least one of said conduits extending from said base to the turbine shaft configured to direct water from the outside source to the turbine shaft bushings

3. The disposable dental instrument of Claim 2, wherein said elongated body is angled.
4. The disposable dental instrument of Claim 2, wherein said elongated body is made substantially entirely of plastic.
5. The disposable dental instrument of Claim 2, wherein said elongated body is made partially of plastic.
6. The disposable dental instrument of Claim 2, wherein said elongated body is made partially of metal.
7. The disposable dental instrument of Claim 2, wherein exterior surfaces of said shell halves are coated with rubber.
8. The disposable dental instrument of Claim 2 having a fiber optic conduit communicating with an outside source of light.

27. The disposable dental instrument of Claim 21, wherein said bushings are made of rubber.

28. The disposable dental instrument of Claim 2, wherein said shaft is rotatably mounted by bushings supported by said head and said bushings provide internal bearing surfaces for said shaft.

29. The disposable dental instrument of Claim 28, wherein said bushings are made of plastic.

30. The disposable dental instrument of Claim 28, wherein said bushings are made of metal.

31. The disposable dental instrument of Claim 28, wherein said brushings are made of sintered metal.

32. The disposable dental instrument of Claim 31, wherein one of said conduits conducts water under pressure to said bushing so that said water is forced through the walls of said bushings to lubricate the internal bearing surfaces thereof.

33. The disposable dental instrument of Claim 28, wherein said bushings have an outer cone shaped configuration adapted to engage a cone-shaped wall within said head to limit lateral movement of said shaft within said head.

34. (Proposed Amendment) A disposable dental instrument driven by compressed air comprising:

an elongated body, said elongated body comprising:

a first shell half, a second shell half, and a core, said shell halves joined to form an exterior surface for manual manipulation, said halves forming a cavity, said cavity comprising a first set of integrally formed grooves within a cavity wall, said core comprising a second set of integrally formed grooves matching up with said first set of grooves, said first and second set of grooves being matched in shape and location to define various passageways as fluid conduits;

a base, said base comprising:

a plurality of conduits, said base communicating with an outside source of light, air, and water through said conduits, said conduits communicating with said passageways defined by said elongated body;

a head located at the opposite end from said base, said head comprising:

a supporting shaft rotatably mounted within said head, a turbine impeller, said turbine impeller connected to said supporting shaft, said turbine impeller being driven by said outside source of air through an air nozzle to rotate a dental bur, a dental bur mounting system, a dental bur removal system, said dental bur removal system having an access hole to allow an object to push out said dental bur from said supporting shaft;

various openings located under said head, said various openings delivering light, air, and water in the general direction of said dental bur; and

a shell half joining system incorporating said first shell half and said second shell half, said first shell half incorporating a square angled protruding surface along the entire joining edge of said first shell half, said square angled protruding surface defining a first width, said second shell half incorporating a triangular shaped recess surface along the entire joining edge of said second shell half, said triangular shaped recess including first and second slanted side walls extending from said joining edge inwardly and toward each other, said slanted walls at the joining edge defining a second width that is larger than the first width, and defining a third width that is smaller than the first width at a central portion of the triangular shaped recess, said square angled protruding surface designed to integrally join with said triangular shaped recess surface to form a strong, water and air proof connection.

35. The disposable dental instrument of Claim 34, wherein said elongated body is angled.

36. The disposable dental instrument of Claim 34, wherein said elongated body is made entirely of plastic.

37. The disposable dental instrument of Claim 34, wherein said elongated body is made partially of plastic.

38. The disposable dental instrument of Claim 34, wherein said elongated body is made partially of metal.

39. The disposable dental instrument of Claim 34, wherein said exterior surface is coated with rubber.

40. The disposable dental instrument of Claim 34, wherein at least one of said conduits communicating with said outside source of light is made of fiber optics.